

Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

19b

MADDOXTM
SUPERIOR AUTOMOTIVE TOOLS

MD5B1

Universal Radiator Adapter Set



Visit our website at: <http://www.harborfreight.com>
Email our technical support at: productsupport@harborfreight.com

56204

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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⚠WARNING

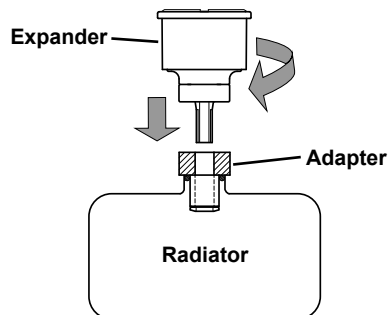
Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

Important Safety Information

1. **TO PREVENT STEAM BURNS, DO NOT OPEN CAP OF HOT OR WARM RADIATOR.**
2. **Pressurize only with hand pump. Do not use engine to pressurize system.**
3. Loosen the radiator cap slowly.
4. Keep away from hot engine parts and fluids.
5. Use this product only according to these instructions. Improper use can create hazards.
6. Wear ANSI-approved safety goggles and heat resistant work gloves during product assembly and use.
7. Refer to the vehicle's service manual for specific radiator pressure testing instructions before use.
8. Clean up coolant spills immediately. Dispose of fluids according to local, state, and federal codes and regulations.
9. Keep work area clean and well lit.
10. Do not overreach. Keep proper footing and balance at all times. This enables better control of the product in unexpected situations.
11. Keep bystanders out of the area during assembly and use.
12. Do not assemble or operate when tired or when under the influence of drugs or medication.
13. This product is not a toy. Do not allow children to play with or near this product.
14. Use as intended only.
15. Inspect before every use. Do not use if parts missing or damaged.
16. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

Operating Instructions

1. Refer to the vehicle's service manual for specific radiator pressure testing instructions.
2. Loosen the vehicle's radiator cap slowly to relieve any excess pressure before removing the cap completely. Do not open the cap of a hot radiator.
3. Select the Adapter that most closely fits the filler neck of the radiator or expansion tank.
4. Thread the Expander loosely into the Adapter and securely attach the Adapter to the filler neck of the radiator or expansion tank. Make sure it is fully inserted and square to the sealing surface.



5. Turn the Expander clockwise to expand the Adapter. Tighten firmly, then pull on the Adapter to ensure it is fully engaged.

6. Connect a cooling system pressure pump (not included) and perform a pressure test following vehicle's service manual and pressure pump manufacturer's instructions.

Note: It may be necessary to close off the overflow vent on some expansion tanks to perform a pressure test.

7. Rapidly pump the pressure pump while watching the pressure gauge. Pressurize the radiator up to the optimal pressure only - Do not overpressurize the radiator. Readings normally range 12~15 PSI. If the pressure level is too low, there may be a leak in the radiator or hose.

8. Once testing is complete, release the air pressure following the pressure pump manufacturer's instructions.

9. Disconnect the pressure pump from the Expander/Adapter assembly.

10. Turn the Expander counterclockwise to loosen the Expander/Adapter assembly and remove it from the radiator.

11. Store the Set in its Case in a clean, dry, safe location out of reach of children.

Parts List and Diagram

| Part | Description |
|------|--------------------|
| 1 | 11/16 Inch Adapter |
| 2 | 1 Inch Adapter |

| Part | Description |
|------|--------------------|
| 3 | 1-3/8 Inch Adapter |
| 4 | Expander |



Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

PLEASE READ THE FOLLOWING CAREFULLY

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